

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10506 (1996): Trolleys for carrying jute bales [MED 7: Material Handling Systems and Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



भारतीय मानक

जूट के गट्ठों को ले जाने की ट्राली — विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

**TROLLEY FOR CARRYING JUTE BALES —
SPECIFICATION**

(First Revision)

ICS 53.060

© BIS 1996

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

July 1996

Price Group 2

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Non-powered Material Handling Equipment Sectional Committee had been approved by the Heavy Mechanical Engineering Division Council.

This standard was first published in 1983. This revision of the standard has been brought out to incorporate the latest practices being followed in the country in the manufacture of the trolleys for carrying jute bales. The revised standard incorporates following changes :

- a) The shape and dimensions of the trolley are revised,
- b) Tolerances on the dimensions included, and
- c) Performance tests included.

In jute industries, special trolleys are required for carrying jute bales from godown to batch house. These are of light construction intended to give satisfactory service over a long period.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TROLLEY FOR CARRYING JUTE BALES — SPECIFICATION

(*First Revision*)

1 SCOPE

This Indian Standard covers principal dimensions and requirements for trolley intended for carrying jute bales upto a capacity of 2 kN inside the jute mills and is not applicable over a long distance or over public roads.

2 REFERENCES

The Indian Standards listed below are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
5 : 1978	Colours for ready mixed paints and enamels (<i>third revision</i>)
1239 (Part 1) : 1990	Mild steel tubes, tubulars and other wrought steel fittings: Part 1 Mild steel tubes (<i>fifth revision</i>)
2062 : 1992	Steel for general structural purposes (<i>fourth revision</i>)
2074 : 1992	Ready mixed paint, air drying, red oxide-zinc chrome, priming (<i>second revision</i>)
2932 : 1994	Enamel, synthetic, exterior (a) undercoating, (b) finishing (<i>second revision</i>)
7369 : 1983	Specification for wheels and castors (<i>first revision</i>)

3 DESIGN

3.1 A typical design of the trolley for carrying jute bales is given in Fig. 1 for guidance only.

3.2 The trolley shall be capable of receiving jute bales with a forward push after positioning the bracket.

3.3 When stationary, the frame of the trolley shall rest on wheels and strut.

4 CONSTRUCTION

4.1 Frame

The frame shall be made out of mild steel tubes conforming to IS 1239 (Part 1) : 1990 or formed section made out of mild steel sheet conforming to IS 2062 : 1992.

4.2 Axle

The axle shall be so positioned that it would be possible to balance the trolley while moving it and shall be made from round steel bar conforming to IS 2062 : 1992.

4.3 Handle

The handle shall be made of mild steel tube conforming to IS 1239 (Part 1) : 1990.

4.4 Fouling Guard

The fouling guard shall be made of steel flats conforming to IS 2062 : 1992.

4.5 Strut

The strut shall be made of round steel bar conforming to IS 2062 : 1992.

5 DIMENSIONS AND TOLERANCES

5.1 The overall dimensions of a 2 kN trolley are given in Fig. 1 for guidance only.

5.2 Tolerances on all overall dimensions of the trolley shall be ± 5 mm.

6 LOAD CARRYING CAPACITY

The trolley shall be capable of carrying load upto 2 kN.

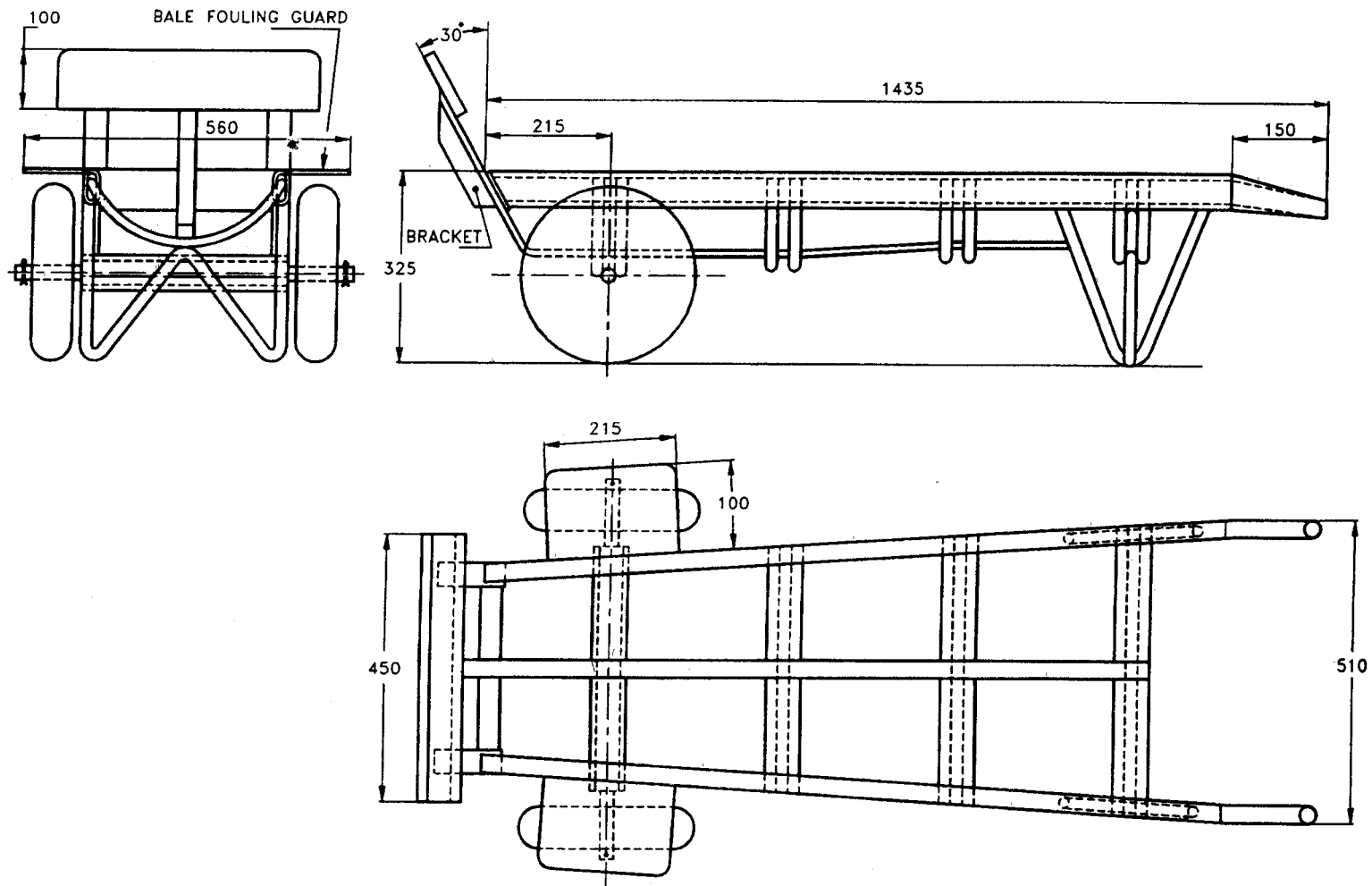
7 WHEELS

The wheels used for the trolley shall conform to IS 7369 : 1983, rubber tyred, with suitable bearing arrangement as agreed to between the purchaser and the manufacturer.

8 WORKMANSHIP AND FINISH

8.1 The trolley shall be free from warp in structural frame work.

8.2 Each trolley shall be free of rust, millscale, dirt, oil, etc, and thoroughly cleaned, if needed with chemical solution and rinsed. Subsequently each trolley shall be given one coat of red oxide primer (*see* IS 2074 : 1992) and then two coats of synthetic enamel paint (*see* IS 2932 : 1994) in colour/shade as agreed (*see* IS 5 : 1978).



All dimensions in millimetres.
FIG. 1 HAND TROLLEY FOR CARRYING JUTE BALES

8.3 The painted surface shall be free from wrinkles, irregular painting, dripping, scratches and irregularities in colouring.

9 PERFORMANCE

9.1 When the trolley is traversed over a smooth road loaded with 120 percent of permissible carrying load, the wheels shall turn smoothly and satisfactorily.

9.2 The push handle shall withstand a minimum horizontal force equal to 230 N plus 2 percent rated capacity without breaking or permanently bending.

10 MARKING

10.1 The trolley shall be marked with the following information in a visible position:

- a) Indication of the source of manufacture;
- b) Load carrying capacity, in kN;
- c) Manufacturer's serial number; and
- d) Year of manufacture.

10.2 BIS Certification Marking

The trolley may also be marked with the Standard Mark.

10.2.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act*, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Handbook' and 'Standards Monthly Additions'.

This Indian Standard has been developed from Doc: No. HMD 15 (0152).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 323 01 31, 323 83 75, 323 94 02

Telegrams : Manaksanstha
(Common to all offices)

Regional Offices :

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

{ 323 76 17
323 38 41

Eastern : 1/14 C. I.T. Scheme VII M, V. I. P. Road, Maniktola
CALCUTTA 700054

{ 337 84 99, 337 85 61
337 86 26, 337 91 20

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022

{ 60 38 43
60 20 25

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 235 02 16, 235 04 42
235 15 19, 235 23 15

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400093

{ 832 92 95, 832 78 58
832 78 91, 832 78 92

Branches : AHMADABAD. BANGALORE. BHOPAL. BHUBANESHWAR.
COIMBATORE. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD.
JAIPUR. KANPUR. LUCKNOW. PATNA. THIRUVANANTHAPURAM.